

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM
STATEMENT OF INVESTMENT POLICY

FOR
GLOBAL ENHANCED EQUITY STRATEGIES – INTERNALLY MANAGED

March 13, 2006

This Policy is effective immediately upon adoption and supersedes all previous global enhanced equity strategies - internally managed investment policies.

I. PURPOSE

This document sets forth the investment policy ("the Policy") for the Global Enhanced Equity Strategies - Internally Managed ("the Strategies"). The design of this Policy ensures that investors, managers, consultants, or other participants selected by the California Public Employees' Retirement System ("the System") take prudent and careful action while managing the Strategies. Additionally, use of this Policy provides assurance that there is sufficient flexibility in controlling investment risks and capturing investment opportunities.

II. STRATEGIC OBJECTIVE

Diversifying the global equity segment through risk-controlled, value-added strategies with a low correlation of returns to the System's other active and [passive investments](#) is the strategic objective of the Strategies.

The Strategies shall be managed to accomplish the following:

1. Enhance the System's total return;
2. Hedge against active (pre-retirement) liabilities;
3. Provide diversification to the System's overall investment program; and
4. Consider solely the interests of the System's participants and their beneficiaries in accordance with California State Law.

III. RESPONSIBILITIES AND DELEGATIONS

- A. The **System's Investment Committee** ("the Investment Committee") is responsible for approving and amending the Policy. The Investment

Committee delegates the responsibility for administering the Strategies portion of the System through the Delegations of Authority (Delegation Nos. 89-13 and 95-50).

- B. The **System's Investment Staff** ("the Staff") duties include, but are not limited to, the following:
1. Developing and recommending the Policy to the Investment Committee;
 2. Maintaining a procedures manual for each portfolio, subject to periodic reviews and updates, outlining Staff operational procedures used in implementing this Policy;
 3. Implementing and adhering to the Policy;
 4. Reporting all violations of the Policy immediately to the Investment Committee. The Staff's report shall include explanations and recommendations;
 5. Purchasing only those securities that are outlined in the Policy; and
 6. Reporting internally to senior management concerning the implementation of this Policy. The Staff's report shall be prepared monthly and shall include, but not be limited to the following:
 - a. Current market value of the portfolio(s);
 - b. Performance of the portfolio(s) versus the Benchmark(s); and
 - c. Performance attribution analysis that attributes return to its causes.
- C. The **General Pension Consultant** ("General Pension Consultant") is responsible for monitoring and evaluating the performance of the portfolio(s) and making reports concerning the performance to the Investment Committee. The General Pension Consultant shall report to the Investment Committee, at least quarterly, the performance relative to the Benchmark and Policy guidelines. The General Pension Consultant is responsible for reporting any non-compliance issues in accordance with its responsibilities under its contract with the System.

IV. PERFORMANCE OBJECTIVE

Enhancing the return of a portion of the Internally Managed Global Equity Index Funds is the performance objective of the Strategies. The performance objective shall be accomplished by seeking to maximize a portfolio's active return within a specified [active risk](#) level.

V. INVESTMENT APPROACH AND PARAMETERS

A. Investment Approach (Domestic Quantitative Factor Model)

The Domestic Quantitative Factor Model portfolio is an active strategy utilizing statistical techniques to define common market factors forming excess return forecasts. To achieve the stated performance objective, the Strategy uses four components in the active equity investment process: Stock Selection, Risk Control, Transaction Cost Control, and Portfolio Construction. The four components are described as follows:

1. Stock Selection

The Strategy uses a quantitative stock selection model to estimate the expected relative return of all stocks within the stock selection universe. The stock selection universe shall be the Wilshire 5000 Index. The stock selection strategy shall diversify across many different types of factors to avoid heavy reliance on any one source of returns should a factor underperform for an extended period. The expected [factor returns](#) in the stock selection strategies shall adapt over time with the realized factor returns.

2. Risk Control

The initial target level of risk in the [active portfolio](#) shall be 50 basis points above the base level of active risk in the set of instruments used to mimic the Benchmark. The maximum target level of risk in the active portfolio shall be 300 basis points above the base level of active risk in the set of instruments used to mimic the Benchmark.

The level of exposure to [common factors](#) associated with undesirable [risk](#) in the active portfolio shall be minimized by applying an increasing penalty to such exposures. Holding a large number of stocks shall diversify the level of [specific risk](#) in the active portfolio. Additionally, the percentage weight of any stock in the active portfolio shall be constrained to be less than $\pm 2\%$ to further control the specific risk of individual stock positions.

3. Transaction Cost Control and Trading Activity

A model of the fixed and variable transaction costs shall be used to offset expected returns by the costs of trading. As a result of such action, the amount of portfolio turnover shall be determined within the [optimization](#) process. The forecast of trading cost for each stock shall be based on its bid/ask spread, historical volume and volatility, and the market center in which it is traded.

The Strategy shall use a variety of trading techniques and liquidity sources to obtain best execution of the trade list.

4. Portfolio Construction

At least monthly, an optimization process shall be performed. The optimization process shall ensure that valuable, time-sensitive stock selection information is implemented in a timely manner and that the portfolio risk characteristics are adequately controlled. The System shall continually monitor and improve the estimates for expected returns, risks, and transaction costs in order to maximize the actual value added to the Strategy from the [active investment process](#).

B. Investment Approach (Fundamental Weighting Model)

The Fundamental Weighting Model portfolio is a strategy utilizing company-specific accounting measures to determine security weights. To achieve the stated performance objective, the Strategies use three components in the active equity investment process: Stock Selection, Risk Control, and Portfolio Construction. The three components are described as follows

1. Stock Selection

Portfolios managed utilizing fundamental factors shall have security selection and weights derived from parameters measuring a company's business success. Currently the parameters used are company sales, book value, dividend yield, and cash flow. The specific parameters and method of calculation security weights shall evolve over time, dependent on the efficacy of the model.

2. Risk Control

The expected tracking variance of fundamental factor based portfolios versus market capitalization benchmarks is currently approximately 400 basis points. The mechanism for monitoring

and controlling tracking variance within expectations shall be described within the strategy's procedures manual.

3. Portfolio Construction

The applied portfolio construction method shall vary as the fundamental factor strategy is deployed in different market segments. Data in the form of fundamental factor based security universes and weights shall be obtained from Research Affiliates LLC (RALLC) and FTSE. This data shall represent the raw information underlying the portfolio construction process.

The strategy shall use discrete portfolios in the domestic and international regions. This division is in recognition of the different benchmarks CalPERS applies to these segments and also to facilitate maintenance of the domestic / international global equity asset allocation.

Where a portfolio resulting from an approximate replication of the fundamental factor derived weights provides an acceptable expected tracking variance, this shall be the construction method utilized. Should a replication of the fundamental factor weights result in expected tracking variance exceeding anticipated levels, alternate portfolio construction methods such as sampling and optimization shall be used to control the expected tracking variance.

C. Specific Risk Parameters

Specific risk parameters shall limit the return deviation of the Portfolio(s) versus the benchmark. A number of models shall ensure that the risk parameters are within an acceptable tolerance level to achieve the performance objectives. Since the System shall add or eliminate models, the specific risk parameters for each model are detailed in the Procedures Manual(s).

Implementation of this program shall comply at all times with the System's investment policies including, but not limited to, the following:

1. Permissible Country Equity Policy;
2. Foreign Exchange Guidelines;
3. Statement of Investment Policy: Derivatives – Investment Office; and

4. Proxy Voting Policies.

D. Restrictions

The Portfolios may not purchase the securities of primary tobacco companies as identified by the Investor Responsibility Research Center Tobacco Company List. In addition, the portfolios will, at all times, comply with the System's investment policies including permissible countries, foreign exchange guidelines, derivatives policies, and proxy voting policies.

E Permissible Securities

Equity and associated securities of global publicly traded companies.

F Corporate Actions

Corporate actions (e.g., [tender offers](#), [mergers](#), [Dutch-auctions](#), or [spin-offs](#)) shall be handled on a case-by-case basis.

Companies which offer discount Dividend Reinvestment Programs (DRIP) and similar programs will be analyzed to determine if return enhancement can be added by participating in such programs.

G Attribution Analyses

Cash, liquidity, [active performance](#), and risk characteristics of the portfolios shall be monitored and reported through the attribution reports described below in-numbers one through three. The reports shall determine any necessary rebalancing of the actual portfolio or additional model research due to issues highlighted in these reports.

1. Performance Attribution Report

A performance attribution report shall be generated monthly decomposing active performance into that due to common factors, including industries, and that due to stock-specific sources.

2. Forecasted Risk Attribution Report

A risk-attribution report shall be generated monthly decomposing the forecasted active risk into that due to common factors, including industries, and that due to stock-specific sources.

3. Cash Position Report

A cash report shall be generated monthly displaying the account equity, long, short, and net cash balances, and the [leverage](#) ratio.

4. Liquidity Report

A liquidity report shall be generated monthly displaying the percentage of total market capitalization of each stock held. The report shall also display the percentage of one-month average daily trading volume, on a total and active basis, and on a portfolio and individual name basis.

VI. BENCHMARKS

Independent sources are responsible for maintaining the benchmarks as well as calculating and reporting the return of the benchmarks to the System.

A. Domestic Factor Model: The benchmark for the Fund shall be entitled the “[CalPERS Custom Wilshire 2500 Index](#)”. This custom benchmark shall be constructed and maintained by Wilshire Associates. It shall be defined as the top 2500 securities of the Wilshire 5000 (excluding REITS and tobacco stocks) with dividends reinvested, and be based on market capitalization and annual reconstitution. Its composition shall provide broad market exposure to the total U.S. equity market while minimizing transaction costs.

B. Fundamental Factor Models:

The benchmark for the domestic portion of the strategy shall be entitled the “CalPERS Custom Wilshire 2500 Index” described above. The benchmark for the international portion of the strategy shall be entitled the “CalPERS Financial Times Stock Exchange (FTSE) All World, Developed, ex US, ex Tobacco, [Capitalization Weighted](#) Index”. The markets included are limited to the countries in the System’s Permissible Country Equity Policy and is calculated on an unhedged basis.

VII. GENERAL

Investors, managers, consultants, or other participants selected by the System shall make all calculations and computations on a market value basis as recorded by the System’s [Custodian](#).

VIII. DERIVATIVES AND LEVERAGE POLICY

A. Strategies

Leverage may be used in the form of borrowed securities. In cases where the Benchmark portfolio does not contain a large enough percentage of the stock to facilitate the desired percentage of underweighting relative to the Benchmark, borrowing the securities from a broker and selling them short can facilitate the additional desired underweighting. The proceeds from the sale of these borrowed securities shall be used to finance the offsetting overweighting of other stocks relative to the Benchmark; consequently, the Strategy remains fully invested.

Financial futures, options, and swaps may be utilized in the portfolio, in accordance with the System's Derivatives Policy, as it may be amended, for the following purposes:

1. To permit the investment of dividends received;
2. To equitize cash and dividends receivable;
3. To allow adjustment of the portfolio's risk characteristics in the most cost effective and efficient manner available; and
4. To facilitate investment of cash flows related to contributions, withdrawals, or asset allocation compliance.

B. Justification

1. Leverage

Necessary to achieve underweights of stocks in the portfolio through short-selling of securities, in accordance with the strategic objective of obtaining the highest active return at the specified target active risk level.

2. Derivatives

- a. Comparing lower transaction costs with the purchase of underlying securities;
- b. Equitizing non-spendable cash exposures (e.g. dividend accruals) to get a highly correlated return on that component of the Portfolio(s);

- c. Providing the ability to alter risk characteristics versus the benchmark without disrupting the underlying Portfolio(s) or unnecessarily increasing turnover; and
- d. Obtaining matched returns between the benchmark and the Portfolio(s) through investment in custom [equity swaps](#) and currency forwards.

C. Restrictions

Restrictions on the above mentioned derivative strategies include the following:

- 1. Writing uncovered calls is prohibited;
- 2. Leveraging is prohibited. The use of futures contracts as specified in this Policy will not constitute leverage;
- 3. With the exception of equity swaps and currency forwards, trading non-exchange traded derivatives is prohibited;
- 4. [Speculating](#) is prohibited;
- 5. Use of non-CFTC approved futures contracts is prohibited; and
- 6. Portfolio specific position limits will be established and monitored as detailed in the applicable procedures manual.

D. Permissible Derivatives

Derivatives utilized in the enhanced index Portfolios may include, but are not limited to the following:

- 1. Index futures;
- 2. Style futures;
- 3. Index options;
- 4. Currency forwards; and
- 5. Equity swaps.

E. Futures Commission Merchants (FCM)

Futures Commission Merchants are selected with the following broad range of criteria:

1. Low cost clearing and executing charges;
2. Securely capitalized firm;
3. Clear account statements and efficient reconciliation;
4. Responsive personnel;
5. Discrete and efficient operation;
6. Personal interview; and
7. Reference checks.

IX. GLOSSARY OF TERMS

Definitions for key words used in this policy are located in the Equity Glossary of Terms which is included in the System's Master Glossary of Terms.

Approved by the Policy Subcommittee: October 6, 2000
Adopted by the Investment Committee: February 20, 2001
Revised by the Policy Subcommittee: December 10, 2004
Adopted by the Investment Committee: February 14, 2005
Revised by the Policy Subcommittee: February 10, 2005
Adopted by the Investment Committee: March 13, 2006